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1998 APES Multiple Choice Samples

3. In the mid 1970s, Sherwood Rowland and Mario Molina predicted a thinning of the stratospheric ozone layer over Antarctica. The thinning was confirmed in the late twentieth century and has continued into the twenty-first century.
- (a) Identify the class of chemical compounds that is primarily responsible for the thinning of the stratospheric ozone layer and describe TWO major uses for which these chemicals were manufactured.
- (b) Describe how the chemical compounds that you identified in part (a) destroy stratospheric ozone molecules. Provide at least two chemical equations as part of your answer.
- (c) Identify the major environmental consequence of the depletion of stratospheric ozone and describe TWO effects on ecosystems and/or human health that can result.
- (d) Ozone formed at ground level is a harmful pollutant. Describe TWO effects that ground level ozone can have on ecosystems and/or human health.
50. All of the following gases have been implicated in contributing to the increase in global temperatures via the greenhouse effect EXCEPT
- (A) CO₂
(B) CH₄
(C) N₂O
(D) CO
(E) CFCs
80. Although ozone in the stratosphere has been decreasing in recent years, ozone near Earth's surface is on the increase. This ozone near the surface is undesirable because it
- (A) absorbs ultraviolet light
(B) has a different chemical structure than stratospheric ozone
(C) reacts with hydrocarbons to form CFC's
(D) is a strong oxidant and a respiratory irritant
(E) accelerates rates of photosynthesis in plants

75. The main environmental effects of ozone depletion could include all of the following EXCEPT
- (A) lower food crop production
(B) decreased concentration of CO₂ in the atmosphere
(C) disruption of marine food chains
(D) increased incidence of skin cancer
(E) reduction of primary productivity in the oceans
88. Which of the following best describes the mechanism of the greenhouse effect in Earth's atmosphere?
- (A) Ultraviolet radiation from the Sun is absorbed by ozone gas in the stratosphere.
(B) Gamma radiation from the Sun is absorbed at ground level by dust particles in the atmosphere.
(C) Infrared radiation from Earth's surface is absorbed by gases in the atmosphere.
(D) Cosmic radiation from deep space is absorbed by gases in the atmosphere.
(E) Alpha radiation from the Sun is absorbed by water vapor in the atmosphere.

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